

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/069130 A2

(51) International Patent Classification⁷: **G06F 9/44**

(21) International Application Number:
PCT/EP2005/050028

(22) International Filing Date: 5 January 2005 (05.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/534,294 5 January 2004 (05.01.2004) US

(71) Applicant and

(72) Inventor: **TYTGADT, Didier** [BE/BE]; Vogelheide, 28,
B-9052 Gent (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DECORTE, Stefaan**
[BE/BE]; Brussels (BE). **VERHAEGHE, Filip** [BE/BE];
Brussels (BE).

(74) Agents: **VAN STRAATEN, Joop** et al.; OFFICE KIRK-
PATRICK, Avenue Wolfers 32, B-1310 LA HULPE (BE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

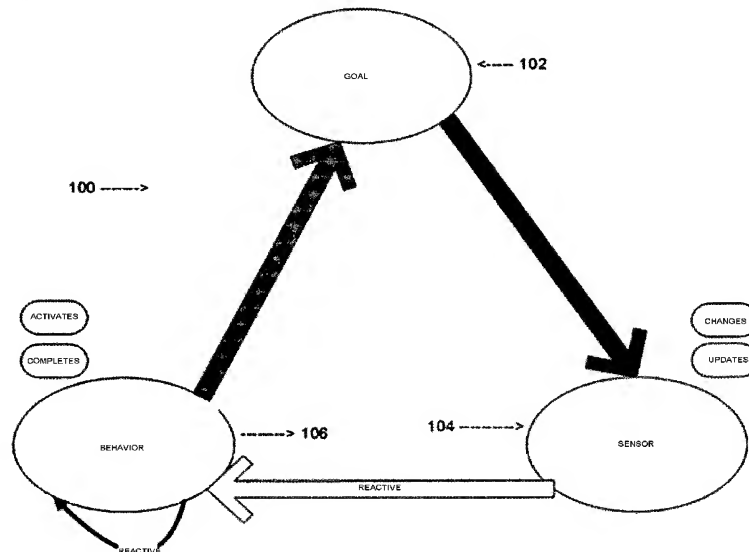
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BEHAVIOR BASED MULTI-AGENT SYSTEMS AS DATA TYPES.



(57) Abstract: The embodiments of the invention include a computer-readable medium having computer-executable components comprising at least one agent having at least one sensor component, having a goal or change method component, and at least one behavior component. The at least one sensor component generates at least one event based at least in part on at least one generated value from the goal or change method component. The at least one behavior component determines whether to activate a thread of execution based at least in part on the at least one generated event from the at least one sensor component. The system complex execution threads can be generated by any operator on agents level, events level, sensors level and behaviors level.

WO 2005/069130 A2